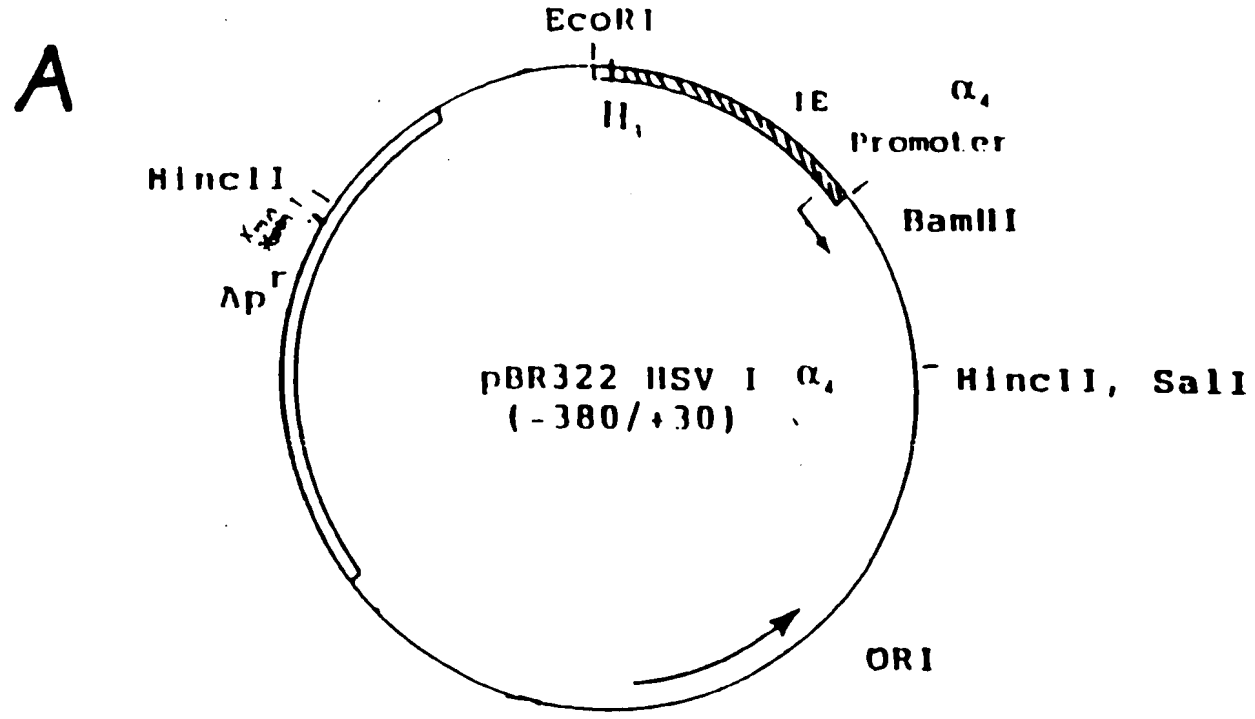
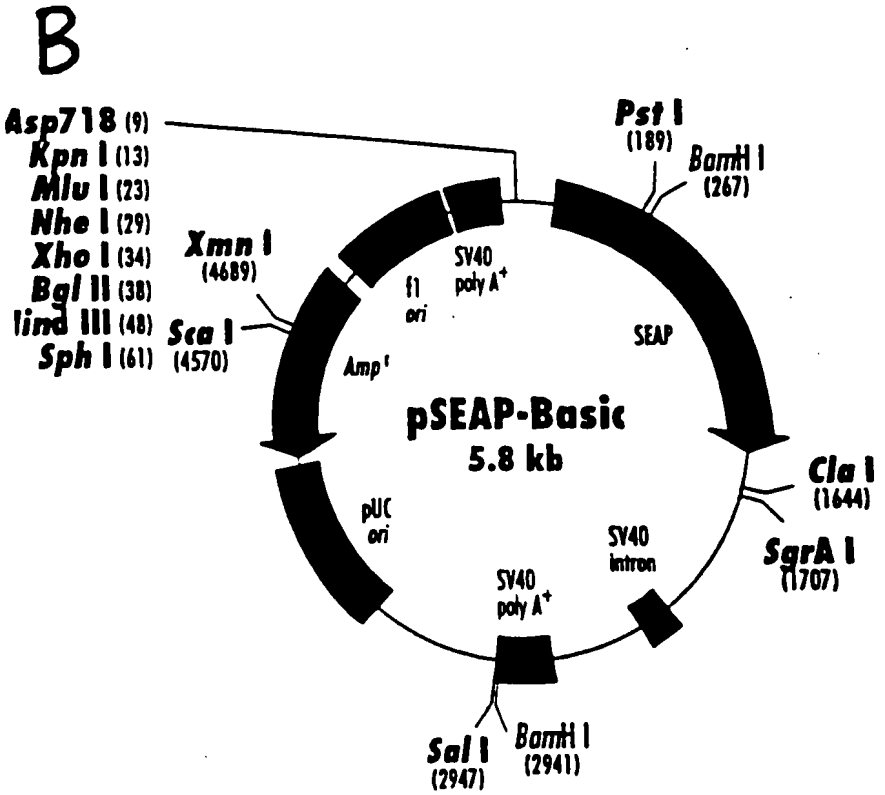
Exhibit A

FIGURE 3 : Restriction Maps of (A) pHSV1α_4SEAP and (B) pSEAP-Basic.

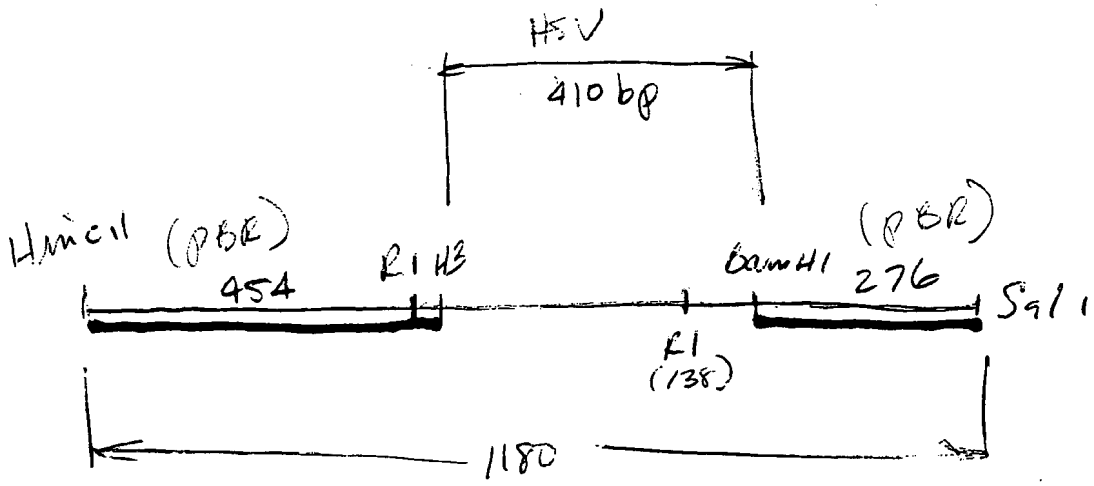




The plasmid pBR322 HSV 1(-380/+30) was linearized with Sal I, phenol extracted, ethanol precipitated and used as the template in an in-vitro transcription reaction. Mal-4 was converted to the sodium salt by reacting with 3 molar equivalents of sodium hydroxide. Three Hundred nano grams of linearized template was mixed with 7.5 ul (~20 ug protein/reaction) HeLa whole cell extract followed by 5 ul of Mal-4. The mixture was incubated at 30°C for 15 minutes. Ribonucleotide triphosphates (1.5 ul) were added to a final concentration of 500 uM followed by the addition of 10 uCi (1 ul) of [α-^{32}P] UTP. Incubation was continued for an additional 60 minutes. The reaction was terminated by the addition of 300 ul of 20 mM tris-HCl (pH 7.8), 150 mM NaCl, and 0.2% SDS. After phenol extraction and ethanol precipitation the pellet was dissolved in 15 ul of 50% formamide and electrophoresed on a 4% polyacrylamide gel containing 7M urea. Lane 1, H2O control, lane 2 Mal-4 at 100 ug/ml, lane 3, Mal-4 at 130 ug/ml.

Reference: J.L. Manley, A. Fire, A. Cano, P.A. Sharp, and M.L. Gefter (1980), Proc Natl Acad Sci USA 77, 3855-3859

−380 / +30 = 410 bp



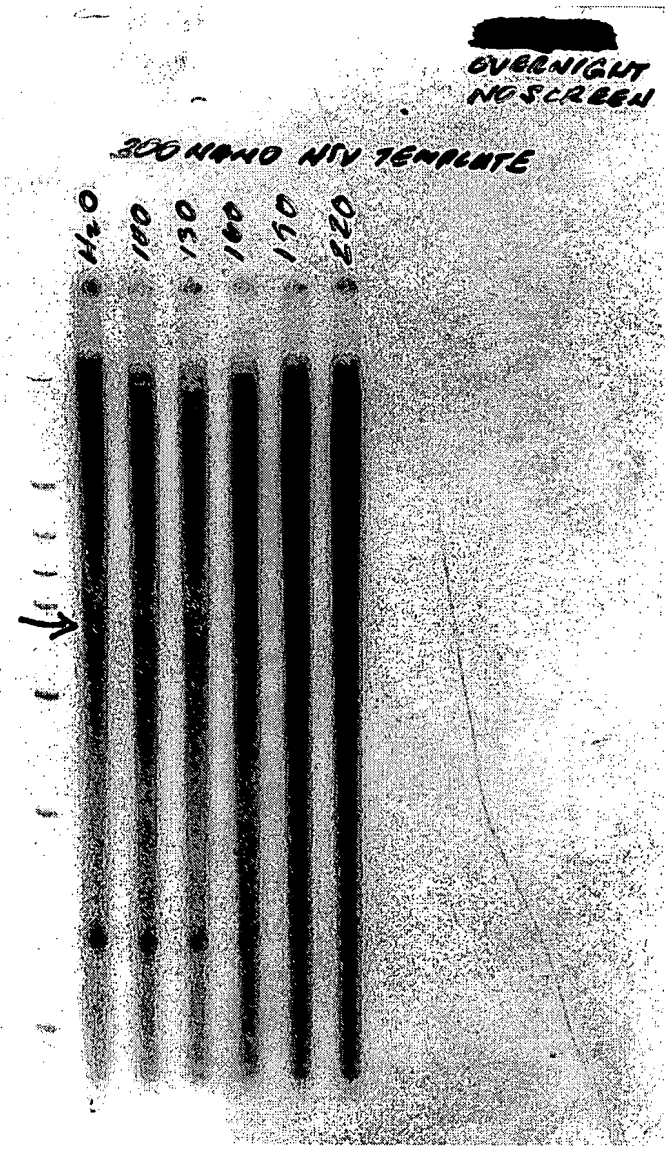

[redacted]
OVERNIGHT
NO SCREEN
300 NMMO NIV TEMPLATE
0 hr
60
120
180
240
300

Figure A(1)